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**TITLE:** POWER GENERATION PLANT AND OPERATING METHOD THEREFOR  
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**ABSTRACT:**

PROBLEM TO BE SOLVED: To process inferior fuel from a heavy crude oil reforming equipment, and to suppress pressure changes in a first fuel supply line due to load changes of a gas turbine, in a power generation plant.

SOLUTION: On a supply line 4 for reformed fuel serving as the delivery line of a heavy oil reforming equipment 5, a first fuel

supply line 6 for supplying reformed fuel 101 to a gas turbine 7 and a second fuel supply line 9 for supplying the fuel to fuel processing equipment 60 are provided to branch them to two lines. Inferior fuel is supplied only to the fuel processing equipment 60 via the second fuel supply line 9, to prevent unstable firing due to mixed firing with the inferior gas at the gas turbine 7. In addition, in response to rapid changes in fuel flow rate to the gas turbine 7, fluctuations in the front pressure of a pressure control valve 22 is suppressed by controlling the opening/closing of a flow control valve 23 of the second fuel supply line 9 provided on the second fuel supply line 9, and by extension, proper controllability of fuel supply to the gas turbine 7 is maintained, on condition that the front pressure of a flow control valve 21 of the first fuel supply line 6 be substantially constant.

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